SEQUENCE LISTING

<110> National Public Health Institute

<120> Identification of SNPs associated with hyperlipidemia, dyslipidemia and defective carbohydrate metabolism

<130> K 1114 PCT

<160> 1

<170> PatentIn version 3.1

<210> 1

<211> 5687

<212> DNA

<213> Human

<220>

<221> variation

<222> (3966)..(3966)

<223> r = adenine (a) or guanine (g):
       adenine is wild-type associated; guanine is disease-associated

<220>

<221> variation

<222> (5205)..(5205)

<223> y = cytosine (c) or thymine (t):
       thymine is wild-type associated; cytosine is disease-associated

<400> 1
ttgaaaattt tccttggata ggaaaggttt ggaggacctt atgggtagag aatttccaaa   60

aatcttgccc cttttgtgtt gggattatct tattgctttg tactgtgtag ctgtttcttt   120

ctggaggcat gtctgcccag ctctttgttt ttcctgccct ctggctgggt gtcagggtcc   180

taaggcagag cttgtaggtg gattcttccc cctttgtctc ttcttcagaa ccctgttttt   240

ttttttttta ccccttcttg ctcaggctta gttgatttgg agttgtcata gcaacatttt   300

agcaacagtg ttgttctgca ggaaggcttg atgaataaaa tagagaatgc ttgaagagga   360

tccacttggg ctttagggtt tctaacagat tatataaatc tggatacccc aaaacaagag   420

tcctgtcagt agaatggggc ccaaatgcca agtctagtct ttgtggtcag ggatattctt   480

ccagtggtag tgggcttcag atttcctctt cctaggtttg aaaacagaaa tgtcttgatg   540

gacaacatgt ggctgagaaa ctggaagaag catcagtgtc catgacactg tattttttga   600

```
tggtggggcc aatacatggc ccttcctgat tcccatgaag ctgccatcat ggcaggtcat   660

aatagcttta atgatccatt tagagatgtg ttgttggctg ggtgcggtgg ctcatgcctg   720

taatccaagc actttgggag gccgaggcag gcggatcacc tgaggtcagg agttccagac   780

cagcctggcc aatatggtaa aaccccatct ctactgaaaa tacaaaaatt agctgggcgt   840

ggtggtgggc acctataatc ccagctattc aggaggctga ggcaggagaa tcacttgaac   900

ccaggagatg gaggttgtaa gccgagattg tgccactgca ctccagcctg ggtgacagag   960

caagattctg tctcagaaaa aaaaaaaaa aaagaaaga aatgtgttgt ttcggccagg  1020

tgcagtggct cacacctgta atcccagcac tttgggaggc tgccgaggtg acagatcat  1080

gctctcagga gttcgagacc agccgggcca acatggtgaa accccgtctc tactaaaaat  1140

acaaaaatta gccaggcgtg gtggtgtgca cctgtaatcc cagctactcc ggaggctgag  1200

gcaggagaat cacttgaacc tgggaggcag aggttgcagt gagctgagat cgcgccactg  1260

cactccagcc tgggtgacag agagagactc tgtctcaaaa aaaaaaaaa aaaaaagtg  1320

ttgtttctgt cttccagtat aattatccac tctccaccag gagttggagt gataatggag  1380

ggatggggaa cactatttgt agccttgctt tttcaatcac tgtaggccag tcctcaacat  1440

cagtatggtg gaggctgatt gtcccctgca gatgactggg ttattttcct ggctatgtgt  1500

tcatggaacc taagttctag aaccagagat actgttctgt ttcctaaact cattgcaaac  1560

ttcatgattt ctaccaggac ttagcactca ggcctgtgaa tcaggagata caaagacctc  1620

caaaaaagga ccagttcctc ggatgtgccc cctcacagag agatgaaggg gtgagtgaag  1680

aagaggtagg gtctgggatg aaagatgggt ggcctggaag aatgcaaaat gaccaagagc  1740

actgcctctg gagtcaggca gacctggatt caggttctac tctatcactt actgtgtgat  1800

ttggtttctc tatctataaa atggaagtag tgctatctat ctcgtggtgc tgttttttagt  1860

actaaataag attacatgta atgtacttag cttagtgctt atgtacatag taaacagtaa  1920

acactagttg ttattctaac ctaacccagc ttctgttggg aatgccaatg agtttgcagc  1980

catatgttac tgggccagtg agcttctcat tgacttcttc tcatactctt cctttttgtcc  2040

tttcaccaca aacaggcagc agaaaacagc tgaaacggaa gaggggacag tgcagattca  2100

ggaaggtgag tgctagaaac agaaccaaga ctaagaaccc atcatggcct cccttccttc  2160

cccaccagac catctcctgt gcatcctcct ccttccgtga catgcaaatg gaacggggggt  2220

agaaaggcag ttaactcaca gacttttcct ttgttctttt aattcaggtg cagtggctac  2280

tggggaagac ccaaccagtg tggctattgc cagcatccag tcagctgcca ccttccctga  2340

ccccaacgtc aagtacgtct tccgaactga gaatggggggc caggtaaggg aggggggccag  2400

gtggctgcag gtgttatctg gggttgggat tgagggaggt aattgaacat gtcttgggga  2460

gacctggctt ggaggatgag ttgaaagagt ggactgttgc aggggaggga ggtgctaata  2520

ctggagtaga gactggtgtg aggttagatg tatgctgaaa cctctgtgtg gggaagaag  2580

ggagaatggc tgaatccatg tctctgaagg actttgtttt ggggccctat ccaagggaag  2640

ctttatgagg ggccctagga ttcccaacac ttaatctttt cttctctctt cactccctct  2700
```

```
gccttcctct acacttctag gtgatgtaca gggtgatcca ggtgtctgag gggcagctgg    2760
atggccaaac tgagggaact ggcgccatca gtggctaccc tgccactcaa tccatgaccc    2820
aggtacaggg tatgggctgg ggaggtcact agagttctga gaagtaagat gaagaaggga    2880
atcagtagga tgggggtgaa gctaggaaca gtgaggcatc taaggctgcc ttgtcccaaa    2940
gcactaggct ctccttttct ggatgtttct ctctctctct ctctctctct ccaccctacc    3000
taccacccca acggatagaa gctgcagagt ggtgtagtgg gaagaagttt ttgactgtta    3060
ccagaatcag ttttcttgct ccccttccca ggcggtgatc cagggtgctt tcaccagtga    3120
tgatgcagtt gacacggagg ggacagctgc tgagacgcac tatacttact tccccagcac    3180
ggcagtggga gatggggcag ggggtaccac atcggggagt acagctgctg ttgttactac    3240
ccagggctca gaggcactgc tggggcaggc gacccctcct ggcactggtg agatattgca    3300
tgaggatgct ggctgaaagg gctagaatag gctgtgggac atgactggta ggcagtgagc    3360
cttcactcat gactcttagt gatcattaag acctggacag gcagtgagtc tggggctgct    3420
cttctattag catgttcttt ttagaggagg ggaccagggt cttcacctca gggcttggtg    3480
aggttcctac ccatgtcctg acagaaccta ccctgcatct tcacaggtca attctttgtg    3540
atgatgtcac cacaagaagt actgcaggga ggaagccagc gctcaattgc ccctaggact    3600
cacccttatt ccccgtgagt gacccttgtt tcttctcaga ttccgtaagt ggtttttttt    3660
tttttttttt tttttgaga cagagtcttg ctctgtcacc caggctggag tgcagtggca    3720
tgatctcagc tcactgcaac ctctgcttcc agggttcaag cgtttctcat gcctcagcct    3780
cctgagtagc tggaactaca gacatgtacc accacccctg gctaattttt gtatctttag    3840
tagagacagg gtttcaccat gttggccagg ctggtctcga actcctgacc tcaagtgatc    3900
cgcctgcctc ggcctcccaa agtgctggga ttacaggtgt gagacaccac acctagctac    3960
cataartggt cctaatacct gctaaatctt gtataattcc ttaaccccaa acttcaatca    4020
tgtattttgt cttcttactc tggccaccct gggctctgtt gtcaggaagt cagaagctcc    4080
ccggacgact cgggatgaga aacgcagggc tcagcataat gaaggtaggt atgatctggg    4140
tggagctaga agctgtctgg tgtgatctca gcagtgatgt ctgaggggag gagggattag    4200
gtaattttac cctgggactt gtggcgagtt ttcactgagt caccttgtcc tccactttgc    4260
cccacagtgg agcgtcgccg ccgagacaag atcaacaact ggatcgtgca gctctccaag    4320
ataatcccag actgctctat ggagagcacc aagtctggcc aggtcatgga aagaccctgg    4380
tagtgggcag gatgcctgaa ttctgcctcc tggtattgtt ccagaaatg gtagagagag    4440
gggcacacat gacagtagtc ttatctctcc ctgaggttcc tgtatccctg ggagatatta    4500
taccaccttc cttagatgaa aatgaggtcc aaagtgtgaa cctacttttg gaaagcaagc    4560
tgggtatctg aaatcctagt tctcattttg ttgaccttat cttgcagagt aaaggtggga    4620
ttctatccaa agcttgtgat tatatccagg agcttcggca gagtaaccac cgcttgtctg    4680
aagaactgca gggacttgac caactgcagc tggacaatga cgtgcttcga caacaggtca    4740
```

```
gactcctacc cccagtgcag cccttctcag ttctgctagc cactgaccca gtttgacacc   4800
ctctactttg ttctccatgg agaaggcttc atctttcccc cctcaccagt ggatgtctga   4860
atacattcag gggcttggaa gtgccagctt tactacccat tcccttact gcctccttcc    4920
catgtcaggt ggaagatctt aaaaacaaga atctgctgct tcgagctcag ttgcggcacc   4980
acggattaga ggtcgtcatc aagaatgaca gcaactaact atggggattc aggggctttg   5040
ggcccaagaa ctgcagatag cccaggagca acagcctaat cccgtgcccc tttccttcac   5100
tgccccactt ctggcatggg acaggggaa gttcagaagg tgtgtccttg aactgaggcc    5160
ctgtgatatg gcggcctgca gtggtgtgaa acacacaatg tggaygtgca ctgacagcct   5220
tgcccacccc caccatgcag cccctgggcc cttgtgctcc tctcgcacaa tgcatgtgct   5280
gtctccatgc tggatactgg acacactaaa ctctggggct tgtcctgtgc ttgcttagag   5340
tgcccagcag aggtttgctg acaggtgatg ctctggcttg ccccaggact ctggcacttc   5400
cattggttct cctttccct ggagctgagg tttagatgtg caacctgtgg ctcaggggag    5460
caagcttaca caagaagtga gggaaggatg tttagcagtg gctggtgccc atgaagagga   5520
gattggccag tgagaagctg aggcctatgc agacatctct ggagccagag agaacaacag   5580
gcaggggccc acttggggcc ttccccttg tggggtcgt tttttttttt tcttttcttt      5640
ttttttttt ttttttttt ttttaagat aaaattgttc aaagcca                    5687
```